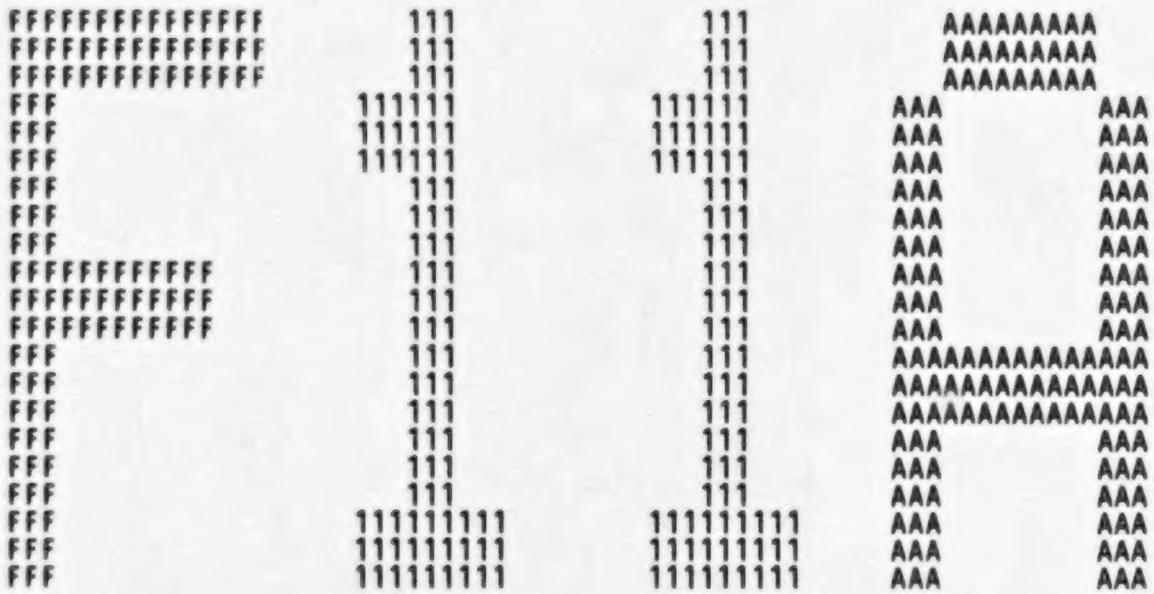
FFFFFFFFFFFFFFF
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FILEID**INIFCB

```
IIIIIII    NN       NN    IIIIIII    FFFFFFFFFF    CCCCCCCC  BBBBBBBB
IIIIIII    NN       NN    IIIIIII    FFFFFFFFFF    CCCCCCCC  BBBBBBBB
  II       NN       NN      II       FF          CC          BB      BB
  II       NN       NN      II       FF          CC          BB      BB
  II       NNNN     NN      II       FF          CC          BB      BB
  II       NNNN     NN      II       FF          CC          BB      BB
  II       NN  NN   NN      II       FFFFFFFF    CC          BBBBBBBB
  II       NN  NN   NN      II       FFFFFFFF    CC          BBBBBBBB
  II       NN    NNNN      II       FF          CC          BB      BB
  II       NN    NNNN      II       FF          CC          BB      BB
  II       NN       NN     II       FF          CC          BB      BB      ....
  II       NN       NN     II       FF          CC          BB      BB      ....
IIIIIII    NN       NN    IIIIIII    FF            CCCCCCCC  BBBBBBBB      ....
IIIIIII    NN       NN    IIIIIII    FF            CCCCCCCC  BBBBBBBB      ....

LL             IIIIIII      SSSSSSSS
LL             IIIIIII      SSSSSSSS
LL               II       SS
LL               II       SS
LL               II       SS
LL               II       SS
LL               II         SSSSSS
LL               II         SSSSSS
LL               II               SS
LL               II               SS
LL               II               SS
LL               II               SS
LLLLLLLLLL     IIIIIII    SSSSSSSS
LLLLLLLLLL     IIIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE INIFCB (
;     2          0002  0                 LANGUAGE (BLISS32),
;     3          0003  0                 IDENT = 'V04-000'
;     4          0004  0                 ) =
;     5          0005  1 BEGIN
;     6          0006  1
;     7          0007  1 !
;     8          0008  1 !**********************************************************************
;     9          0009  1 !*                                                                    *
;    10          0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                           *
;    11          0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.            *
;    12          0012  1 !*  ALL RIGHTS RESERVED.                                             *
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;    16          0016  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
;    17          0017  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
;    18          0018  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
;    19          0019  1 !*  TRANSFERRED.                                                       *
;    20          0020  1 !*                                                                    *
;    21          0021  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
;    22          0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
;    23          0023  1 !*  CORPORATION.                                                       *
;    24          0024  1 !*                                                                    *
;    25          0025  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
;    26          0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.            *
;    27          0027  1 !*                                                                    *
;    28          0028  1 !*                                                                    *
;    29          0029  1 !**********************************************************************
;    30          0030  1
;    31          0031  1 !++
;    32          0032  1 !
;    33          0033  1 ! FACILITY:  F11ACP Structure Level 1
;    34          0034  1 !
;    35          0035  1 ! ABSTRACT:
;    36          0036  1 !
;    37          0037  1 !       These routines create and initialize a file control block
;    38          0038  1 !       from the given file header.
;    39          0039  1 !
;    40          0040  1 ! ENVIRONMENT:
;    41          0041  1 !
;    42          0042  1 !       STARLET operating system, including privileged system services
;    43          0043  1 !       and internal exec routines. These routines must be called in
;    44          0044  1 !       kernel mode.
;    45          0045  1 !
;    46          0046  1 !
;    47          0047  1 !--
;    48          0048  1 !
;    49          0049  1 !
;    50          0050  1 ! AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  14-Dec-1976  16:48
;    51          0051  1 !
;    52          0052  1 ! MODIFIED BY:
;    53          0053  1 !
;    54          0054  1 !       V03-002 LMP0221         L. Mark Pilant,         31-Mar-1984  12:16
;    55          0055  1 !               Add support for an ORB in the FCB.
;    56          0056  1 !
;    57          0057  1 !       V03-001 STJ3108         Steven T. Jeffreys,   24-Jun-1983
```

```
;    58          0058  1 !                     Fix link truncation error.
;    59          0059  1 !
;    60          0060  1 !       A0100   ACG0001         Andrew C. Goldstein,  10-Oct-1978  20:01
;    61          0061  1 !                     Previous revision history moved to F11A.REV
;    62          0062  1 !
;    63          0063  1 !**
;    64          0064  1
;    65          0065  1
;    66          0066  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    67          0067  1 REQUIRE 'SRC$:FCPDEF.B32';
```

```
;    69          0382  1 GLOBAL ROUTINE INIT_FCB (FCB, HEADER) : NOVALUE =
;    70          0383  1
;    71          0384  1 !++
;    72          0385  1 !
;    73          0386  1 ! FUNCTIONAL DESCRIPTION:
;    74          0387  1 !
;    75          0388  1 !       This routine initializes the given FCB according to the given
;    76          0389  1 !       file header.
;    77          0390  1 !
;    78          0391  1 ! CALLING SEQUENCE:
;    79          0392  1 !       INIT_FCB (ARG1, ARG2)
;    80          0393  1 !
;    81          0394  1 ! INPUT PARAMETERS:
;    82          0395  1 !       ARG1: FCB address
;    83          0396  1 !       ARG2: header address
;    84          0397  1 !
;    85          0398  1 ! IMPLICIT INPUTS:
;    86          0399  1 !       HEADER_LBN contains LBN of header block
;    87          0400  1 !
;    88          0401  1 ! OUTPUT PARAMETERS:
;    89          0402  1 !       NONE
;    90          0403  1 !
;    91          0404  1 ! IMPLICIT OUTPUTS:
;    92          0405  1 !       NONE
;    93          0406  1 !
;    94          0407  1 ! ROUTINE VALUE:
;    95          0408  1 !       NONE
;    96          0409  1 !
;    97          0410  1 ! SIDE EFFECTS:
;    98          0411  1 !       FCB initialized
;    99          0412  1 !
;   100          0413  1 !--
;   101          0414  1
;   102          0415  2 BEGIN
;   103          0416  2
;   104          0417  2 MAP
;   105          0418  2         FCB             : REF BBLOCK,   ! FCB argument
;   106          0419  2         HEADER          : REF BBLOCK;   ! file header arg
;   107          0420  2
;   108          0421  2 LOCAL
;   109          0422  2         FCB_ORB         : REF BBLOCK,   ! Address of the ORB within the FCB
;   110          0423  2         MAP_AREA        : REF BBLOCK,   ! pointer to header map area
;   111          0424  2         MAP_COUNT,                      ! count of map pointers
;   112          0425  2         MAP_POINTER     : REF BBLOCK,   ! pointer to scan map
;   113          0426  2         FILESIZE;                       ! size of file in blocks
;   114          0427  2
;   115          0428  2 EXTERNAL
;   116          0429  2         HEADER_LBN      : ADDRESSING_MODE (GENERAL);    ! LBN of file header
;   117          0430  2
;   118          0431  2 ! Set up the ORB address.
;   119          0432  2
;   120          0433  2 FCB_ORB = FCB[FCB$R_ORB];
;   121          0434  2
;   122          0435  2 ! Get the known constants and the simple stuff from the file header
;   123          0436  2 ! (i.e., header LBN, file ID, starting VBN, file owner and file protection).
;   124          0437  2 !
;   125          0438  2
```

```
;  126          0439  2 FCB[FCB$L_HDLBN]          = .HEADER_LBN;
;  127          0440  2 FCB[FCB$W_FID_NUM]       = .HEADER[FH1$W_FID_NUM];
;  128          0441  2 FCB[FCB$W_FID_SEQ]       = .HEADER[FH1$W_FID_SEQ];
;  129          0442  2 FCB_ORB[ORB$W_UICMEMBER]= .HEADER[FH1$B_UICMEMBER];
;  130          0443  2 FCB_ORB[ORB$W_UICGROUP] = .HEADER[FH1$B_UICGROUP];
;  131          0444  2 FCB_ORB[ORB$V_PROT_16] = 1;
;  132          0445  2 FCB_ORB[ORB$W_PROT]     = .HEADER[FH1$W_FILEPROT];
;  133          0446  2 IF .HEADER[FH1$V_SPOOL] THEN FCB[FCB$V_SPOOL] = 1;
;  134          0447  2 FCB[FCB$L_EFBLK]        = ROT (.BBLOCK[HEADER[FH1$W_RECATTR], FAT$L_EFBLK], 16);
;  135          0448  2 IF  .FCB[FCB$L_EFBLK] NEQ 0
;  136          0449  2 AND .BBLOCK[HEADER[FH1$W_RECATTR], FAT$W_FFBYTE] EQL 0
;  137          0450  2 THEN FCB[FCB$L_EFBLK] = .FCB[FCB$L_EFBLK] - 1;
;  138          0451  2
;  139          0452  2 ! Now scan the map area. Get the starting LBN if the file is contiguous
;  140          0453  2 ! and count up the file size from the retrieval pointers.
;  141          0454  2 !
;  142          0455  2
;  143          0456  2 MAP_AREA = .HEADER + .HEADER[FH1$B_MPOFFSET]*2;
;  144          0457  2 MAP_POINTER = .MAP_AREA + FM1$C_POINTERS;
;  145          0458  2 FCB[FCB$W_SEGN] = .MAP_AREA[FM1$B_EX_SEGNUM];
;  146          0459  2
;  147          0460  2 FCB[FCB$L_STLBN] = 0;                    ! assume non-contiguous file
;  148          0461  2 IF .HEADER[FH1$V_CONTIG]
;  149          0462  2 THEN
;  150          0463  3     BEGIN
;  151          0464  3     FCB[FCB$L_STLBN] = .MAP_POINTER[FM1$W_LOWLBN]; ! get low order LBN
;  152          0465  3     (FCB[FCB$L_STLBN])<16,8> = .MAP_POINTER[FM1$B_HIGHLBN]; ! and high order
;  153          0466  2     END;
;  154          0467  2
;  155          0468  2 FILESIZE = 0;
;  156          0469  2 DECR MAP_COUNT FROM .MAP_AREA[FM1$B_INUSE]/2 TO 1 DO
;  157          0470  3     BEGIN
;  158          0471  3     FILESIZE = .FILESIZE + .MAP_POINTER[FM1$B_COUNT] + 1;
;  159          0472  3     MAP_POINTER = .MAP_POINTER + 4;
;  160          0473  2     END;
;  161          0474  2 FCB[FCB$L_FILESIZE] = .FILESIZE;
;  162          0475  2
;  163          0476  2 IF .FCB[FCB$L_EFBLK] GTR .FILESIZE
;  164          0477  2 THEN FCB[FCB$L_EFBLK] = .FILESIZE;
;  165          0478  2
;  166          0479  1 END;                                    ! end of routine INIT_FCB

                                                        .TITLE  INIFCB
                                                        .IDENT  \V04-000\

                                                        .EXTRN  HEADER_LBN

                                                        .PSECT  $CODE$,NOWRT,2

                                        003C 00000      .ENTRY  INIT_FCB, Save R2,R3,R4,R5                      ; 0382
                              53    04  AC   D0 00002   MOVL    FCB, R3                                         ; 0433
                              50    58  A3   9E 00006   MOVAB   88(R3), FCB_ORB                                 ;
                        34    A3 00000000G  00   D0 0000A   MOVL    HEADER_LBN, 52(R3)                          ; 0439
                              52    08  AC   D0 00012   MOVL    HEADER, R2                                      ; 0440
                        24    A3    02  A2   D0 00016   MOVL    2(R2), 36(R3)                                   ;
                              60    08  A2   9B 0001B   MOVZBW  8(R2), (FCB_ORB)                               ; 0442
```

```
                        02   A0        09   A2   9B 0001F          MOVZBW  9(R2), 2(FCB_ORB)                          ; 0443
                        0B   A0        01   88   8C 00024          BISB2   #1, 11(FCB_ORB)                          ; 0444
                        18   A0        0A   A2   B0 00028          MOVW    10(R2), 24(FCB_ORB)                      ; 0445
                04      0D   A2              04   E1 0002D          BBC     #4, 13(R2), 1$                           ; 0446
                        22   A3              10   88 00032          BISB2   #16, 34(R3)                              ;
                             55        3C   A3   9E 00036 1$:       MOVAB   60(R3), R5                               ; 0447
                65      16   A2              10   9C 0003A          ROTL    #16, 22(R2), (R5)                        ;
                                             07   13 0003F          BEQL    2$                                       ; 0448
                                        1A   A2   B5 00041          TSTW    26(R2)                                   ; 0449
                                             02   12 00044          BNEQ    2$                                       ;
                                             65   D7 00046          DECL    (R5)                                     ; 0450
                             50         01   A2   9A 00048 2$:       MOVZBL  1(R2), R0                                ; 0456
                             51       6240   3E   9E 0004C          MOVAW   (R2)[R0], MAP_AREA                       ;
                             50         0A   A1   9E 00050          MOVAB   10(R1), MAP_POINTER                      ; 0457
                        2A   A3              61   9B 00054          MOVZBW  (MAP_AREA), 42(R3)                       ; 0458
                                        30   A3   D4 00058          CLRL    48(R3)                                   ; 0460
                                        0C   A2   95 0005B          TSTB    12(R2)                                   ; 0461
                                             09   18 0005E          BGEQ    3$                                       ;
                        30   A3         02   A0   3C 00060          MOVZWL  2(MAP_POINTER), 48(R3)                   ; 0464
                        32   A3              60   90 00065          MOVB    (MAP_POINTER), 50(R3)                    ; 0465
                                             52   D4 00069 3$:       CLRL    FILESIZE                                 ; 0468
                             54         08   A1   9A 0006B          MOVZBL  8(MAP_AREA), R4                          ; 0469
                             54              02   C6 0006F          DIVL2   #2, R4                                   ;
                                             54   D6 00072          INCL    MAP_COUNT                                ;
                                             0C   11 00074          BRB     5$                                       ;
                             51         01   A0   9A 00076 4$:       MOVZBL  1(MAP_POINTER), R1                       ; 0471
                             52         01 A142   9E 0007A          MOVAB   1(R1)[FILESIZE], FILESIZE                ;
                             50              04   C0 0007F          ADDL2   #4, MAP_POINTER                          ; 0472
                             F1              54   F5 00082 5$:       SOBGTR  MAP_COUNT, 4$                            ; 0469
                        38   A3              52   D0 00085          MOVL    FILESIZE, 56(R3)                         ; 0474
                             52              65   D1 00089          CMPL    (R5), FILESIZE                           ; 0476
                                             03   15 0008C          BLEQ    6$                                       ;
                             65              52   D0 0008E          MOVL    FILESIZE, (R5)                           ; 0477
                                                  04 00091 6$:       RET                                              ; 0479

; Routine Size:  146 bytes,    Routine Base:  $CODE$ + 0000

;  167          0480  1
;  168          0481  1 END
;  169          0482  0 ELUDOM



;                                    PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $CODE$                           146  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                               Library Statistics
```

```
;
;                                    -------- Symbols --------      Pages       Processing
;       File                         Total    Loaded   Percent     Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1     18619        31         0      1000          00:01.9
```

```
;                                  COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:INIFCB/OBJ=OBJ$:INIFCB MSRC$:INIFCB/UPDATE=(ENH$:INIFCB)

; Size:         146 code + 0 data bytes
; Run Time:       00:07.9
; Elapsed Time:   00:26.3
; Lines/CPU Min:   3642
; Lexemes/CPU-Min: 17410
; Memory Used:  110 pages
; Compilation Complete
```